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(54) **Carbonylation of allylic butenols and butenol esters.**

(57) A process for the production of 3-pentenoic acid by the carbonylation of an allylic butenol or an allylic butenol ester using a rhodium catalyst and a hydrogen bromide or hydrogen iodide promoter.

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EUROPEAN SEARCH REPORT

Application Number

EP 90 12 1679

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	FR-A-2 180 021 (FARBWERKE HOECHST) * claims; examples 2-3,6-7 ** - - -	1-11	C 07 C 57/03 C 07 C 51/12
A	EP-A-0 181 003 (E.I. DU PONT DE NEMOURS) * page 3, line 12 - page 5, line 26; claims; examples ** - - -	1-11	
A	GB-A-1 233 121 (MONSANTO) * claims; example 38 ** - - - - -	1-11	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C 07 C
Place of search		Date of completion of search	Examiner
The Hague		02 December 91	ZERVAS B.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
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T : theory or principle underlying the invention			